

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A redundant switched full-duplex Ethernet type communication network comprising:

at least two independent elementary networks, each elementary network comprising at least one source subscriber equipment and at least one destination subscriber equipment;

at least one switch configured to connect the at least two independent elementary networks to each other through ~~the~~ at least one physical link ~~through at least one switch~~, each equipment being connected to each of ~~these~~ said two independent elementary networks; and

a control configured to perform a frame by frame redundancy on each elementary network; and

a virtual link mechanism configured to limit a transfer time from said at least one source subscriber equipment to said at least one destination subscriber equipment,

wherein said at least one switch is configured to rely on a configuration table to identify a virtual link to be switched and to further identify a number of packets for said virtual link.

Claim 2 (Currently Amended): A network process according to claim 1, wherein there are two independent elementary networks.

Claim 3 (Previously Presented): A network according to claim 1, wherein the control performs the frame by frame redundancy by being further configured to, in transmission: add a numbering field in each transmitted frame, to insert a frame number; and send the frame with the inserted frame member on each of the elementary networks.

Claim 4 (Previously Presented): A network process according to claim 3, wherein the control performs the frame by frame redundancy by being further configured to, in reception:

- store the received frame number; and
- accept the frame only if its frame number has not already been received.

Claim 5 (Previously Presented): A network according to claim 4, in which the control is further configured to accept a frame only if it takes place within a given time window.

Claim 6 (Currently Amended): A network according to claim 4, wherein [[a]] said virtual link concept is used, which is a conceptual view of a link from [[a]] said at least one source subscriber equipment to said at least one destination subscriber equipment.

Claim 7 (Currently Amended): A network according to claim 6, wherein a virtual link number is accepted in the a numbering field.

Claim 8 (Currently Amended): A network according to claim 6, in which [[a]] said virtual link is characterized by comprises:

- a transfer direction, the virtual link being single directional;
- a source equipment;
- one or plural items of destination equipment;
- a fixed passband;
- a maximum guaranteed time for transfer of packets from a source equipment to a destination equipment;
- a fixed path on the network; and
- a unique identifier.

Claim 9 (Previously Presented): A network according to claim 1 that is used for implementation of a redundant switched full-duplex Ethernet type communication network in avionics.

Claim 10 (Currently Amended): A redundant switched full-duplex Ethernet ~~type~~ communication network comprising:

at least two independent elementary networks, each elementary network comprising at least one source subscriber equipment and at least one destination subscriber equipment;

at least one switch configured to connect the at least two independent elementary networks to each other through the at least one physical link through at least one switch, each equipment being connected to each of these said two independent elementary networks; and means for performing a frame by frame redundancy on each elementary network, and a virtual link mechanism configured to limit a transfer time from said at least one source subscriber equipment to said at least one destination subscriber equipment,

wherein said at least one switch is configured to rely on a configuration table to identify a virtual link to be switched and to further identify a number of packets for said virtual link.

Claim 11 (Previously Presented): A network process according to claim 10, wherein there are two elementary networks.

Claim 12 (Previously Presented): A network according to claim 10, wherein the means for performing performs the frame by frame redundancy by being further configured to, in transmission:

add a numbering field in each transmitted frame, to insert a frame number; and  
send the frame with the inserted frame member on each of the elementary networks.

Claim 13 (Previously Presented): A network process according to claim 12, wherein  
the means for performing performs the frame by frame redundancy by being further  
configured to, in reception:

store the received frame number; and  
accept the frame only if its frame number has not already been received.

Claim 14 (Previously Presented): A network according to claim 13, in which the  
means for performing further accepts a frame only if it takes place within a given time  
window.

Claim 15 (Currently Amended): A network according to claim 13, wherein [[a]] said  
~~virtual link concept is used, which is a conceptual view of a link from [[a]] said at least one~~  
~~source subscriber equipment to said at least one destination subscriber equipment.~~

Claim 16 (Currently Amended): A network according to claim 15, wherein a virtual  
link number is accepted in ~~the a~~ numbering field.

Claim 17 (Currently Amended): A network according to claim 15, in which [[a]] said  
~~virtual link is characterized by comprises:~~

a transfer direction, the virtual link being single directional;  
a source equipment;  
one or plural items of destination equipment;

a fixed passband;

    a maximum guaranteed time for transfer of packets from a source equipment to a destination equipment;

    a fixed path on the network; and

    a unique identifier.

Claim 18 (Previously Presented): A network according to claim 10 that is used for implementation of a redundant switched full-duplex Ethernet type communication network in avionics.